

Wisconsin Railroads

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Identification_Information:

Citation:

Citation_Information:

Originator: Wisconsin Department of Transportation (WisDOT)

Publication_Date: 1998

Title: Wisconsin Railroads

Publication_Information:

Publication_Place: Madison, Wisconsin, USA

Publisher: Wisconsin Department of Transportation (WisDOT)

Online_Linkage:

[<http://www.dot.wisconsin.gov/library/publications/format/maps.htm>](http://www.dot.wisconsin.gov/library/publications/format/maps.htm)

Larger_Work_Citation:

Citation_Information:

Originator: Wisconsin Department of Transportation (WisDOT)

Publication_Date: Varies

Title: Location Control Management (LCM) Data Sets

Publication_Information:

Publication_Place: Madison, Wisconsin, USA

Publisher: Wisconsin Department of Transportation
(WisDOT)

Description:

Abstract:

This data set is a line shape file representing railroads in Wisconsin, derived from a

data set developed by the Wisconsin Dept. of Transportation (WisDOT), and called the "1:100,000-scale Rails Chain Database". Metadata for the Rails Chain Database as developed by WisDOT is reproduced here, (with section names in a green font), together with additional information about minor modifications to the data carried out by WiDNR. The WisDOT Rails Chain Database is an Arc/Info coverage representing the centerline of Wisconsin railroad lines which was compiled from the 100K Digital Line Graph produced by the US Geological Survey and from rail industry track charts and timetables. This data set includes all main track and sidings identified in railroad timetables; does not include abandonments. Some lines extend beyond state borders, however, data outside of Wisconsin is for cartographic purposes only and will not be maintained.

Purpose:

This data set was created to support comprehensive state-wide rail and intermodal system planning in the Bureau of Planning, and is a component of the Rail Infrastructure Database System and the Commodity Information Management System. This data set is intended for planning purposes only at 1:100,000 scale. This data set is not designed for use as a primary regulatory tool in permitting and citing decisions, but may be used as a reference source.

Supplemental Information:

The rail chains database is part of the larger Rails (Location Control Management) Database.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 19980101

Currentness_Reference: Publication date of sources

Status:

Progress: Complete

Maintenance_and_Update_Frequency: Irregular

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -92.88922

East_Bounding_Coordinate: -86.76400

North_Bounding_Coordinate: 47.08095

South_Bounding_Coordinate: 42.49180

Keywords:

Theme:

Theme_Keyword_Thesaurus: none

Theme_Keyword: railroads

Theme_Keyword: railways

Theme_Keyword: rails

Theme_Keyword: transportation

Theme_Keyword: Burlington Northern-Santa Fe

Theme_Keyword: Canadian Pacific Railway
Theme_Keyword: Duluth, Missabe and Iron Range
Theme_Keyword: Escanaba & Lake Superior
Theme_Keyword: Fox Valley & Western
Theme_Keyword: I & M Rail Link
Theme_Keyword: Municipality of East Troy Wisconsin Railroad
Theme_Keyword: Saulte Ste. Marie Bridge Company
Theme_Keyword: Tomahawk Railway
Theme_Keyword: Union Pacific Railroad
Theme_Keyword: Wisconsin Central Ltd.
Theme_Keyword: Wisconsin & Southern Railroad
Theme_Keyword: BN
Theme_Keyword: Soo Line
Theme_Keyword: CP
Theme_Keyword: DMIR
Theme_Keyword: ELS
Theme_Keyword: FVW
Theme_Keyword: IMRL
Theme_Keyword: SSAM
Theme_Keyword: TR
Theme_Keyword: UP
Theme_Keyword: WCL
Theme_Keyword: WSOR

Place:

Place_Keyword_Thesaurus: none
Place_Keyword: Wisconsin

Access_Constraints:

In accordance with Wisconsin State Statutes regarding open records, in particular, Subchapter II - Public Records and Property, Sections 19.31 through 19.39 (data access and distribution).

Use_Constraints: none

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Maria Hart

Contact_Organization:

Wisconsin Department of Transportation, Division of Transportation
Investment Management, Bureau of Planning, Multimodal Planning
Unit

Contact_Position: Information System Program Analyst

Contact_Position: GIS Consultant

Contact_Address:

Address_Type: mailing address

Address: 4802 Sheboygan Avenue, Room 901

City: Madison

State_or_Province: Wisconsin

Postal_Code: 53707

Country: United States

Contact_Address:

Address_Type: mailing address

Address: 4802 Sheboygan Avenue, Room 201B

City: Madison

State_or_Province: Wisconsin

Postal_Code: 53707

Country: United States

Contact_Voice_Telephone: 608-266-8968

Contact_Voice_Telephone: 608-266-6975

Contact_Facsimile_Telephone: 608-267-0294

Contact_Facsimile_Telephone: 608-266-1515

Contact_Electronic_Mail_Address:

mhart-emx (internal WisDOT) or mhart@mail.state.wi.us

Contact_Electronic_Mail_Address:

jduchate-emx (internal WisDOT) or jduchate@mail.state.wi.us

Hours_of_Service: 8:30 to 2:30 Monday to Wednesday

Hours_of_Service: 8:00 to 4:00 Monday to Friday

Contact_Instructions: call for information

Contact_Instructions: call for information

Browse_Graphic:

Browse_Graphic_File_Name: <<http://wisclinc.state.wi.us/metadata/dot/dotrls01.gif>>

Browse_Graphic_File_Description:

Screensize image of WisDOT 1:100,000 Scale Roadway Chain

Browse_Graphic_File_Type: GIF

Native_Data_Set_Environment: Unix Arc/Info version 7.1.2

Cross_Reference:

Citation_Information:

Originator: United States Geological Survey

Publication_Date: 1986

Title: 1:100000 Transportation Layer Digital Line Graph

Online_Linkage: <<ftp://edcftp.cr.usgs.gov/pub/data/DLG/100K>>

Cross_Reference:

Citation_Information:

Originator: Railroad companies

Publication_Date: varies

Title: Track charts

Geospatial_Data_Presentation_Form: map

*Data_Quality_Information:**Logical_Consistency_Report:* Non-planar chain-node topology present.*Completeness_Report:*

Refer to the Rails Chain Database section of the Location Control Management (LCM) Manual, WisDOT, Madison, Wisconsin, USA

*Positional_Accuracy:**Horizontal_Positional_Accuracy:**Horizontal_Positional_Accuracy_Report:*

Conforms to U.S. National Map Accuracy Standards.

*Quantitative_Horizontal_Positional_Accuracy_Assessment:**Horizontal_Positional_Accuracy_Value:* 167 feet*Horizontal_Positional_Accuracy_Explanation:* Resolution as reported*Lineage:**Source_Information:**Source_Citation:**Citation_Information:**Originator:* United States Geological Survey*Publication_Date:* 1986*Title:* 1:100000 Transportation Layer Digital Line Graph*Type_of_Source_Media:* digital line graph*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:* unknown*Source_Currentness_Reference:* publication date*Source_Citation_Abbreviation:* USGS DLG*Source_Contribution:*

Centerline coordinate for the shape and node identification.

*Source_Information:**Source_Citation:**Citation_Information:**Originator:* Railroad companies*Publication_Date:* varies*Title:* Track charts*Geospatial_Data_Presentation_Form:* map*Type_of_Source_Media:* paper*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:* Unknown*Source_Currentness_Reference:* publication data

Source_Citation_Abbreviation:

Source_Contribution:

Updates to track centerline coordinate geometry and milepost stationing at various scales for the shape and node identification.

Process_Step:

Process_Description:

The Rails Chain database was produced by changing the 1:100000 scale DLG's from planar to nonplanar, altering the number, names and content of attributes, and re-tiling the quadrangles to statewide extent. For a more detailed explanation, see the Rail Chain Conversion documentation Rails Chain Database section of the Location Control Management (LCM) Manual, WisDOT, Madison, Wisconsin.

Process_Date: 1997

Process_Step:

Process_Description:

Using the converted DLG information as a base dataset, the track chart information was used to update the database via heads-up digitizing.

Process_Date: 1996

Process_Step:

Process_Description:

The WiDNR Geographic Services Section (GEO) obtained a copy of the Rail Chain database from WisDOT. GEO projected the coverage from WTM27 to WTM83/91 using the ARC/INFO PROJECT command, and renamed the coverage to be consistent with GEO's naming convention for DNR geographic data. A line shape file version of the data was then created using the ARCSHAPE command. For more information about DNR/GEO modifications to the Rail Chain database, refer to the *Contact_Organization_Secondary* portion of the *Metadata_Reference_Information* section of this document.

Process_Date: 1998

Process_Step:

Process_Description: Metadata imported.

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: 4972

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Grid_Coordinate_System:

Grid_Coordinate_System_Name: Other Grid System's Definition

Other_Grid_System's_Definition:

Name: WTM 83/91 Projection: Transverse Mercator

Scale_Factor_at_Central_Meridian 0.9996

Longitude_of_Central_Meridian -90.0

Latitude_of_Projection_Origin 0.0 False_Easting 520000

False_Northing -4480000

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: coordinate pair

Coordinate_Representation:

Abcissa_Resolution: 5

Ordinate_Resolution: 5

Planar_Distance_Units: meters

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983, 1991 adjustment

Ellipsoid_Name: GRS80

Semi-major_Axis: 6378137

Denominator_of_Flattening_Ratio: 298.25722210088

Entity_and_Attribute_Information:

Overview_Description:

Entity_and_Attribute_Detail_Citation:

Detailed information is available about line features included in the 1:100000-scale Rails Chain data set (contact WisDOT).

Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Jonathon J. DuChateau

Contact_Organization:

Wisconsin Department of Transportation, Division of Business
Management, Bureau of Automation Services, GIS Unit

Contact_Position: Location Control Management GeoManager

Contact_Address:

Address_Type: mailing address

Address: 4802 Sheboygan Avenue, Room 201B

City: Madison

State_or_Province: Wisconsin

Postal_Code: 53707

Country: United States

Contact_Voice_Telephone: 608-266-6975

Contact_Facsimile_Telephone: 608-266-1515

Contact_Electronic_Mail_Address:

duchaj (internal WisDOT) or duchaj@mail.state.wi.us

Hours_of_Service: 7:30 to 4:00 Monday to Friday

Contact_Instructions: call for info

Resource_Description: Offline data

Distribution_Liability:

The information contained in this data set was created for the official use of the Wisconsin Department of Transportation (WisDOT). Any other use while not prohibited, is the sole responsibility of the user. WisDOT expressly disclaims all liability regarding fitness of use of the information for other than official WisDOT business.

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Ordering_Instructions: Contact the Wisconsin Department of Transportation.

Custom_Order_Process: call or write distributor

Technical_Prerequisites: Arc/Info 7.1.2

Metadata_Reference_Information:

Metadata_Date: 19981116, 20050516

Metadata_Review_Date: 20050516

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Wisconsin DNR, Bureau of Technology Services

Contact_Position: GIS Data Specialist

Contact_Address:

Address_Type: mailing address

Address: P.O. Box 7921

City: Madison

State_or_Province: WI

Postal_Code: 53707-7921

Country: USA

Contact_Voice_Telephone: 608.264.8914

Contact_Facsimile_Telephone: 608.266.0870

Contact_Electronic_Mail_Address: John.Laedlein@dnr.state.wi.us

Hours_of_Service: Normal business hours or as available.

Metadata_Standard_Name: FGDC CSDGM

Metadata_Standard_Version: FGDC-STD-001-1998

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